



## MULTISENSOR QUAD

### QUICK INSTALLATION GUIDE v1.2

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#### ELECTROMAGNETIC COMPATIBILITY

In proper state and when operated properly, the product complies with all the requirements in respect of interference radiation according to EN 301 489-17, EN 301 489-1 and EN 300 328. The connections conducting HF signals must neither be manipulated nor damaged.

#### TAKE CARE OF YOUR SAFETY

Display extreme caution when using ladders or steps, please follow manufacturer's instructions. Be careful when using hand and power tools and follow the manufacturer's guidelines when using them. Take care that the correct tools are used. Wear goggles or protective clothing where required.

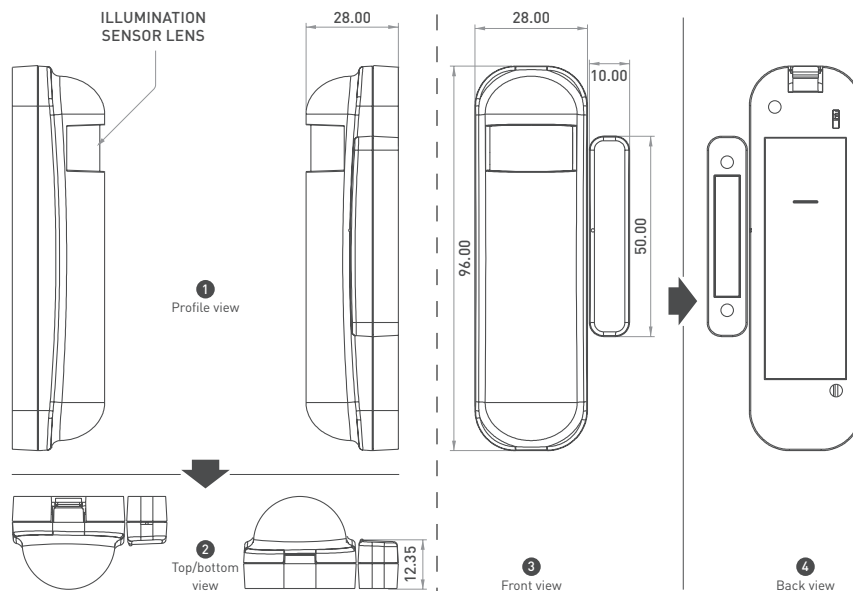
## INTRODUCTION

The 4 in 1 multi-sensor is designed to meet the requirement of integrate 4 sensors into one housing:

- (1) Door/window
- (2) PIR
- (3) illumination and
- (4) temperature

When the detector is cooperated with security appliances, the (1) Door/window or (2) PIR sensor act as an alarm detector. Alternatively, when the detector is worked with Z-Wave controller, the detector can be set to perform the role of home automation device by detecting both changes in PIR motion detect or door/window open close signal with percentage of illumination lux levels. One scenario is, once night falls, the percentage of ambient illumination is lower than preset value. If a person moves within or across the devices field of vision, a trigger radio signal will be transmitted so as to turn connected lightings for better illumination. Another scenario is to combine (1) Door/window (2) PIR (3) illumination sensors to recognize people is coming in or going out and turn the light on/off automatically. The temperature sensor can detect the temperature so as to adjust heater or cooler to achieve preset temperature or detect the abnormal environment temperature (like freeze sensor or fire sensor) to send the warning message.

FIGURE 1  
Dimensions (unit: mm)



## FEATURES

- (1) Door/window (2) PIR (3) illumination and (4) temperature functions in one sensor
- Adopt newest Z-wave 400 series chip, support multichannel operation and higher data rate (9.6/40/100kbps)
- Higher output power [+2.5dBm output power as compared to -2.5dBm 300 series Z-wave module] to enhance the communication range
- 1500mA CR123A lithium battery to guarantee 2 year battery life
- Built in light sensor while applied to light control
- Adopt Z-Wave protocol to secure the success of wireless two way communication
- With Tamper proof protection
- Easy install
- Low battery indication
- Z-Wave V6.02
- Z-Wave Certified No PSM02-1 ZC08-13050003
- Auto report the open/close status and battery status
- FCC part15.249 / EN300 220-1/ certification
- NCC

## APPLICATION

PSM02 is a special device combining both PIR and Door/window functions. The benefits of combining Door/window with PIR in one sensor can be observed in the following scenarios:

- ▲ The ambient lighting would be lower than default setting value after sunset. If the PSM02 was installed on the inner side of door



in the house, PSM02 would detect coming in people, then the light would be turned on for the better illumination by radio transmission. Furthermore, PSM02 can be applied in a bathroom and it may turn on/off light and fan automatically.

- PSM02 can be taken as a portal chime at front desk of hotel or restaurant by sending out signal to IP-Gateway PSC01 as reminder which can be connected with speaker to turn the volume up. It can be kept silent when customer leaving.

■ For SMEs (small and medium enterprises), PSM02 plays an important role in working hours and non-working hours. When non-working hours, PSM02 plays as security motion sensor, protects the office from intruders. At working hours, PSM02, 4 in 1 sensor, can be applied to curtain or heater/cooler controller for energy saving issue; although some people may use thermostat to control heater/cooler however, PSM02 sensor can be smarter choice. Since it can detect the people's activities, and shutdown machine when no one exists or no movements.

■ In the past, a digital home starter KIT includes many different sensors with very high price. Right now, Using the 4 in 1 patented sensor and a 4 in 1 gateway PSC01 (Siren + speaker + light + IP based controller) carry out home "security" + "safety" + "automation" in one box and provide customer full experience of digital life and flexibility in installation with affordable price.

#### TECHNICAL SUPPORT

Having trouble installing your new product?

Zipato's website contains the latest user documentation and software updates for Zipato products and services.  
[www.zipato.com](http://www.zipato.com)

#### CALL SUPPORT

+ 385 1 4004 404 / (Mon-Fri) 9.00am-06.00

## SPECIFICATION

#### POWER

OPERATING VOLTAGE	STANDBY CURRENT
3V CR123A	48 uA
OPERATING CURRENT	LOW BATTERY VOLTAGE
37mA	2.6V

#### RF

FREQUENCY -1/-2/-3/-4
868.42 [EU] / 908.42[USA] / 922.5/923.9/926.3[Taiwan/Jp] / 921.42[AU] MHz
REGULATION
FCC part15.249 / EN300 220-1
DISTANCE
min. 40m indoor/min. 100m outdoor

#### MECHANICAL

WEIGHT	DIMENSION (W x H x D)
52 g	Detector 28 x 96 x 23 mm Magnet. 10 x 50 x 12 mm

#### BATTERY

CR123A	BATTERY LIFE
1500mAh	> 2 years

#### ENVIRONMENT

OPERATION TEMPERATURE	HUMIDITY
Normal environment temperature -10~ 40° C to have better PIR and battery performance	85%RH max

#### TEMPERATURE

DETECT RANGE
-10~70°C

#### ILLUMINATION

RANGE
0~500 LX

#### PIR DETECTION ANGLE

HORIZONTAL
0° 8~10M 90° 6~8M

#### HARDWARE

MAGNETIC GAP (OPEN→CLOSE)	MAGNETIC GAP (CLOSE→OPEN)
28 MM	30 MM



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## LIMITED PRODUCT WARRANTY

### GENERAL TERMS

Nothing in this Limited Product Warranty affects your statutory rights as a consumer.

The Limited Product Warranty set forth below is given by Tri plus grupa d.o.o. (Europe) (herein referred to as "ZIPATO"). This Limited Product Warranty is only effective upon presentation of the proof of purchase. Upon further request by ZIPATO, this warranty card has to be presented, too.

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This Limited Product Warranty applies to ZIPATO branded hardware products (collectively referred to as "ZIPATO Hardware Products") sold by ZIPATO (Europe), its European subsidiaries, affiliates, authorized resellers, or country distributors (collectively referred to as "ZIPATO Resellers") with this Limited Product Warranty.

The term "ZIPATO Hardware Product" is limited to the hardware components and all its internal components including firmware. The term "ZIPATO Hardware Product" DOES NOT include any software applications or programs.

### GEOGRAPHICAL SCOPE OF THE LIMITED PRODUCT WARRANTY

This Limited Product Warranty is applicable to Hardware Products sold by Zipato Resellers in all countries listed at the beginning of this document under the heading "Countries in which this ZIPATO Limited Product Warranty applies". The Limited Product Warranty will be honored in any country where ZIPATO or its authorized service providers offer warranty service subject to the terms and conditions set forth in this Limited Product Warranty. However, warranty service availability and response times may vary from country to country and may also be subject to registration requirements.

### LIMITATION OF PRODUCT WARRANTY

ZIPATO warrants that the products described below under normal use are free from material defects in materials and workmanship during the Limited Product Warranty Period set forth below ("Limited Product Warranty Period"), if the product is used and serviced in accordance with the user manual and other documentation provided to the purchaser at the time of purchase (or as amended from time to time).

ZIPATO does not warrant that the products will operate uninterrupted or error-free or that all deficiencies, errors, defects or non-conformities will be corrected.

This warranty shall not apply to problems resulting from: (a) unauthorized alterations or attachments; (b) negligence, abuse or misuse, including failure to operate the product in accordance with specifications or interface requirements; (c) improper handling; (d) failure of goods or services not obtained from ZIPATO or not subject to a then-effective ZIPATO warranty or maintenance agreement; (e) improper use or storage; or (f) fire, water, acts of God or other catastrophic events. This warranty shall also not apply to any particular product if any ZIPATO serial number has been removed or defaced in any way.

ZIPATO IS NOT RESPONSIBLE FOR DAMAGE THAT OCCURS AS A RESULT OF YOUR FAILURE TO FOLLOW THE INSTRUCTIONS FOR THE ZIPATO HARDWARE PRODUCT.

### LIMITED PRODUCT WARRANTY PERIOD

The Limited Product Warranty Period starts on the date of purchase from ZIPATO. Your dated sales or delivery receipt, showing the date of purchase of the product, is your proof of the purchase date. You may be required to provide proof of purchase as a condition of receiving warranty service. You are entitled to warranty service according to the terms and conditions of this document if a repair to your ZIPATO branded hardware is required within the Limited Product Warranty Period.

[Other than in respect of products for domestic use (in particular those listed in the first and last boxes in the table below), this Limited Product Warranty extends only to the original end user purchaser of this ZIPATO Hardware Product and is not transferable to anyone who obtains ownership of the ZIPATO Hardware Product from the original end-user purchaser.

### PRODUCT WARRANTY PERIOD TABLE

PRODUCT TYPE	Multisensor Quad
PRODUCT WARRANTY PERIOD	One (1) year

### IMPORTANT

The content of "Product Type" listed above is subject to change; please refer to the [www.zipato.com](http://www.zipato.com) for latest update.

### PERFORMANCE OF THE LIMITED PRODUCT WARRANTY

If a product defect occurs, ZIPATO's sole obligation shall be to repair or replace any defective Zipato Hardware Product free of charge provided it is returned to an Authorized ZIPATO Service Centre during the Limited Warranty Period. Such repair or replacement will be rendered by ZIPATO at an Authorized ZIPATO

Service Centre. All component parts or hardware products that are replaced under this Limited Product Warranty become the property of ZIPATO. The replacement part or product takes on the remaining Limited Warranty Period of the replaced part or product. The replacement product need not be new or of an identical make, model or part; ZIPATO may in its discretion replace the defective product (or any part thereof) with any reconditioned equivalent (or superior) product in all material respects to the defective product.

### WARRANTOR

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CROATIA

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## DECLARATION OF CONFORMITY

The Manufacturer Tri plus grupa d.o.o. hereby declares that the product:  
Zipbox Smart home controller 1



In accordance with the following Directive(s): 2006/95/EC The Low Voltage Directive, 89/336/EEC The Electromagnetic Compatibility Directive and 1999/5/EC R&TT EC Directive is in conformity with the applicable requirements of the following documents:

EN 61326 EN 61000-3-3 EN 61000-4-4 EN 61000-4-11  
IEC/EN 55011 EN 61000-6-2 EN 61000-4-5 EN 301 489-1-3  
EN 300 220-2 EN 61000-4-2 EN 61000-4-6 AS/NZS/IEC 60335-2-97  
EN 61000-3-2 EN 61000-4-3 EN 61000-4-8 EN 60335-1

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications. The unit complies with all applicable Essential Requirements of the Directives.

Person responsible for this declaration:  
Dean Janacek, Certification Manager  
01.09.2012

Changes or modifications not expressly approved Tri plus grupa d.o.o. for compliance could void the user's authority to operate the equipment.



### THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES.

Operation is subject to the following two conditions:  
1 | this device may not cause harmful interference, and  
2 | this device must accept any interference received, including interference that may cause undesired operation.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

1 | l'appareil ne doit pas produire de brouillage, et  
2 | l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions,

may cause harmful interference to radio communications.

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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